Indicator 3: Diagnosed with Depression

Internal variable name: outc3_depression

Section 1: Definition

Definition: (Ever told) you that you have a depressive disorder, including depression, major depression, dysthymia, or minor depression?

Section 2: Predictive models

	Mixed, demos only	Logit, no area effects	Mixed with area covariates
	b/se	b/se	b/se
Outcome 3: Diagnosed with Depression			
Non-Hispanic Black vs. Non-Hispanic White	-0.6443***	-0.6596***	-0.6596***
	(0.1182)	(0.1304)	(0.1194)
Non-Hispanic Asian vs. Non-Hispanic White	-0.6742**	-0.5646*	-0.5646*
	(0.2517)	(0.2678)	(0.2405)
Non-Hispanic Other vs. Non-Hispanic White	-0.1482	-0.1323	-0.1324
	(0.1692)	(0.1994)	(0.1723)
Hispanic vs. Non-Hispanic White	-0.4753**	-0.4039*	-0.4039**
	(0.1580)	(0.1927)	(0.1527)
Female	0.7224***	0.7141***	0.7141***
	(0.0763)	(0.0818)	(0.0743)
Age 18-24 vs. 65+	0.4883**	0.4946**	0.4946**
	(0.1782)	(0.1625)	(0.1780)
Age 25-34 vs. 65+	0.5530***	0.5780***	0.5780***
	(0.1156)	(0.1246)	(0.1203)
Age 35-44 vs. 65+	0.4823***	0.5033***	0.5033***
	(0.1159)	(0.1178)	(0.1144)
Age 45-54 vs. 65+	0.4902***	0.5178***	0.5178***
	(0.1072)	(0.1044)	(0.1070)
Age 55-64 vs. 65+	0.4550***	0.4613***	0.4613***
	(0.0958)	(0.0974)	(0.0950)
Testis Cancer Male Rate		-0.0145	-0.0145
		(0.0084)	(0.0076)
Crude mortality rate of chronic lower respiratory per 10,000		0.0555*	0.0555***
		(0.0215)	(0.0149)
Crude mortality rate of intentional self harm / suicide per 10,000		-0.1289	-0.1289
		(0.1571)	(0.1901)
% urbanized population		-0.0033**	-0.0033***
		(0.0012)	(0.0009)

Average aggregated value (in dollars) per occupied housing unit in the ACS		-0.0008	-0.0008
		(0.0008)	(0.0007)
Diabetes_Type_II hospitalization rate per 1,000		-0.1791	-0.1791
		(0.1213)	(0.1167)
{ Crude mortality rate of intentional self harm}		0.0147	0.0147
interacted with {Diabetes_Type_II hospitalization rate}		(0.0630)	(0.0659)
% Households with children: single parents		0.0182**	0.0182**
		(0.0069)	(0.0069)
Cervix Cancer Female Rate		-0.0117	-0.0117
		(0.0272)	(0.0385)
{% single parent Households}		0.0001	0.0001
Interacted with {Cervix Cancer Female Rate}		(0.0007)	(0.0010)
Intercept	-2.1664***	-2.0615***	-2.0615***
	(0.0927)	(0.4596)	(0.5152)
Area effect variance	0.0779**		0.0000
	(0.0288)		(0.0000)

Number of alternative models used to estimate model error = 5.

Section 3: Results

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Augusta County	51015	21.8%	(15.4%, 30.1%)	22.6%	(19.7%, 25.7%)
Bath County	51017	11.7%	(3.7%, 46.5%)	19.7%	(13.8%, 27.5%)
Caroline County	51033	21.5%	(9.0%, 43.1%)	17.4%	(12.9%, 23.2%)
Clarke County	51043	1.5%	(0.9%, 21.9%)	17.5%	(12.5%, 24.0%)
Culpeper County	51047	18.8%	(9.7%, 33.1%)	17.2%	(13.3%, 22.0%)
Fauquier County	51061	20.4%	(11.6%, 33.4%)	16.3%	(12.2%, 21.4%)
Frederick County	51069	17.6%	(10.5%, 27.8%)	16.9%	(13.7%, 20.8%)
Highland County	51091	0.0%	(0.0%, 83.2%)	9.8%	(1.8%, 38.4%)
King George County	51099	6.5%	(2.6%, 30.9%)	12.5%	(9.1%, 17.0%)
Madison County	51113	33.0%	(13.5%, 61.0%)	21.7%	(18.0%, 26.0%)
Orange County	51137	14.6%	(7.3%, 26.8%)	20.8%	(15.1%, 28.1%)
Page County	51139	23.8%	(5.7%, 61.8%)	17.5%	(12.7%, 23.7%)
Rappahannock County	51157	8.2%	(1.3%, 38.5%)	11.3%	(7.7%, 16.3%)
Rockbridge County	51163	20.3%	(8.6%, 40.8%)	24.6%	(21.7%, 27.8%)
Rockingham County	51165	14.2%	(8.1%, 23.9%)	18.7%	(16.5%, 21.1%)
Shenandoah County	51171	15.2%	(7.8%, 27.5%)	22.7%	(19.8%, 25.7%)
Spotsylvania County	51177	16.7%	(9.7%, 27.2%)	15.0%	(13.2%, 16.9%)
Stafford County	51179	14.1%	(8.5%, 22.5%)	13.9%	(11.8%, 16.4%)
Warren County	51187	10.4%	(5.9%, 25.8%)	16.4%	(13.1%, 20.3%)
Buena Vista City	51530	12.2%	(0.9%, 91.3%)	23.5%	(18.2%, 29.8%)
Fredericksburg City	51630	41.7%	(21.1%, 65.6%)	18.6%	(14.9%, 22.9%)
Harrisonburg City	51660	9.3%	(2.5%, 42.5%)	16.1%	(11.6%, 21.8%)
Lexington City	51678	0.0%	(0.0%, 99.4%)	25.3%	(22.0%, 28.9%)
Staunton City	51790	0.0%	(0.0%, 42.2%)	20.4%	(17.1%, 24.1%)
Waynesboro City	51820	20.9%	(5.4%, 55.0%)	23.7%	(20.9%, 26.8%)
Winchester City	51840	18.4%	(6.3%, 43.2%)	18.2%	(15.1%, 21.8%)

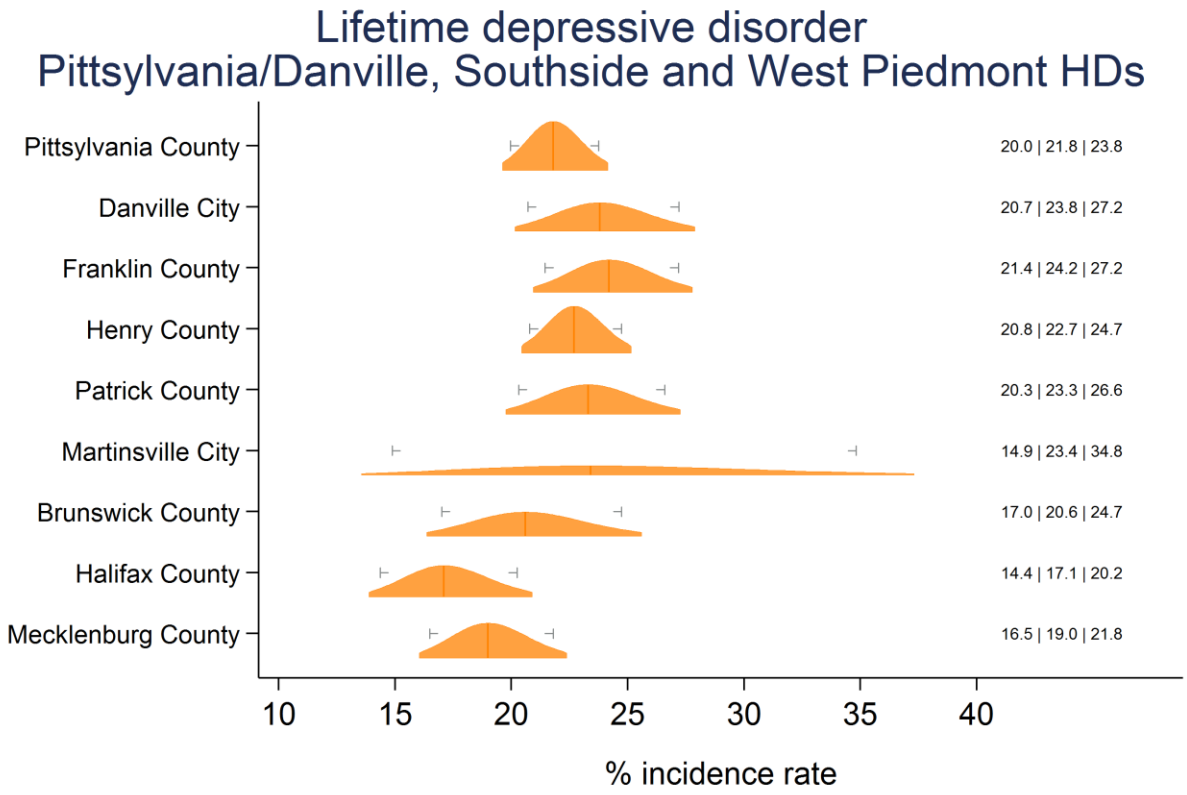
County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Albemarle County	51003	22.9%	(14.7%, 33.9%)	17.4%	(15.1%, 20.0%)
Alleghany County	51005	20.1%	(9.0%, 38.9%)	23.3%	(18.2%, 29.4%)
Amherst County	51009	22.0%	(9.5%, 43.0%)	17.5%	(14.4%, 21.0%)
Appomattox County	51011	17.1%	(6.5%, 37.7%)	15.9%	(12.3%, 20.3%)
Arlington City	51013	21.3%	(14.7%, 29.7%)	15.0%	(12.0%, 18.5%)
Bedford County	51019	7.2%	(4.1%, 15.4%)	18.1%	(14.2%, 22.7%)
Botetourt County	51023	14.7%	(6.8%, 28.9%)	17.0%	(14.0%, 20.6%)
Campbell County	51031	23.8%	(12.8%, 40.1%)	18.7%	(16.5%, 21.2%)
Craig County	51045	0.0%	(0.0%, 73.6%)	22.5%	(16.2%, 30.4%)
Fairfax County	51059	11.3%	(7.9%, 15.8%)	11.8%	(9.9%, 14.0%)
Fluvanna County	51065	24.5%	(10.2%, 48.3%)	18.5%	(14.5%, 23.4%)
Greene County	51079	12.0%	(3.0%, 37.7%)	17.7%	(14.0%, 22.2%)
Loudoun County	51107	17.8%	(12.3%, 24.9%)	12.6%	(10.2%, 15.4%)
Louisa County	51109	12.2%	(4.4%, 29.6%)	19.1%	(15.5%, 23.3%)
Nelson County	51125	16.4%	(5.2%, 41.3%)	18.5%	(15.0%, 22.7%)
Prince William County	51153	8.9%	(4.9%, 15.6%)	13.6%	(11.8%, 15.6%)
Roanoke County	51161	17.1%	(11.0%, 25.6%)	17.0%	(15.2%, 19.0%)
Alexandria City	51510	13.1%	(7.3%, 22.3%)	14.9%	(12.9%, 17.3%)
Charlottesville City	51540	13.9%	(4.2%, 37.6%)	14.5%	(10.7%, 19.4%)
Covington City	51580	0.0%	(0.0%, 99.4%)	19.8%	(7.9%, 41.4%)
Fairfax City	51600	13.6%	(7.6%, 23.1%)	14.3%	(11.8%, 17.3%)
Falls Church City	51610	6.4%	(1.6%, 66.4%)	14.7%	(9.0%, 23.1%)
Lynchburg City	51680	14.9%	(7.4%, 27.5%)	17.3%	(14.5%, 20.5%)
Manassas City	51683	15.3%	(3.1%, 50.0%)	14.8%	(12.7%, 17.2%)
Manassas Park City	51685	0.0%	(-0.0%, 96.8%)	15.9%	(12.0%, 20.8%)
Salem City	51775	17.0%	(4.3%, 48.0%)	14.3%	(10.9%, 18.5%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Bland County	51021	71.7%	(34.1%, 90.9%)	16.6%	(4.8%, 44.2%)
Buchanan County	51027	41.2%	(26.9%, 57.2%)	42.5%	(37.7%, 47.6%)
Carroll County	51035	23.9%	(11.9%, 42.3%)	28.4%	(25.4%, 31.5%)
Dickenson County	51051	30.9%	(16.3%, 50.5%)	34.3%	(24.7%, 45.4%)
Floyd County	51063	16.6%	(4.9%, 43.4%)	15.4%	(11.3%, 20.7%)
Franklin County	51067	27.4%	(12.7%, 49.7%)	24.2%	(20.9%, 27.8%)
Giles County	51071	27.5%	(13.0%, 48.9%)	25.5%	(22.3%, 29.1%)
Grayson County	51077	19.2%	(7.1%, 42.4%)	27.6%	(21.9%, 34.2%)
Henry County	51089	18.6%	(11.4%, 28.7%)	22.7%	(20.5%, 25.2%)
Lee County	51105	34.9%	(18.4%, 56.1%)	30.7%	(27.7%, 34.0%)
Montgomery County	51121	19.4%	(11.5%, 30.9%)	21.0%	(18.0%, 24.5%)
Patrick County	51141	17.3%	(8.0%, 33.5%)	23.3%	(19.8%, 27.3%)
Pittsylvania County	51143	19.3%	(11.3%, 31.1%)	21.8%	(19.6%, 24.1%)
Pulaski County	51155	36.1%	(22.6%, 52.1%)	29.7%	(26.3%, 33.4%)
Russell County	51167	30.0%	(17.0%, 47.4%)	24.5%	(20.3%, 29.2%)
Scott County	51169	35.4%	(22.7%, 50.5%)	34.4%	(28.9%, 40.3%)
Smyth County	51173	37.0%	(21.2%, 56.1%)	29.2%	(26.1%, 32.4%)
Tazewell County	51185	33.3%	(21.4%, 47.7%)	27.5%	(24.1%, 31.2%)
Washington County	51191	24.5%	(14.3%, 38.7%)	20.1%	(16.6%, 24.0%)
Wise County	51195	30.1%	(18.7%, 44.6%)	31.5%	(27.7%, 35.5%)
Wythe County	51197	31.4%	(18.3%, 48.3%)	22.7%	(17.4%, 29.1%)
Bristol City	51520	43.4%	(14.6%, 77.4%)	36.1%	(23.2%, 51.4%)
Danville City	51590	30.8%	(13.1%, 56.8%)	23.8%	(20.1%, 27.9%)
Galax City	51640	75.9%	(19.7%, 97.6%)	40.7%	(34.3%, 47.5%)
Martinsville City	51690	37.6%	(8.5%, 79.6%)	23.4%	(13.6%, 37.3%)
Norton City	51720	19.8%	(2.4%, 79.2%)	26.5%	(12.8%, 47.0%)
Radford City	51750	51.1%	(12.9%, 88.0%)	23.9%	(16.7%, 33.0%)
Roanoke City	51770	21.1%	(14.3%, 30.0%)	16.6%	(11.8%, 22.8%)

County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Amelia County	51007	1.7%	(0.9%, 24.9%)	14.4%	(10.8%, 18.9%)
Brunswick County	51025	10.7%	(3.4%, 29.1%)	20.6%	(16.4%, 25.6%)
Buckingham County	51029	17.2%	(7.8%, 33.8%)	20.2%	(16.4%, 24.7%)
Charles City County	51036	32.6%	(10.4%, 67.0%)	22.5%	(18.6%, 27.0%)
Charlotte County	51037	9.6%	(2.3%, 32.0%)	14.6%	(10.5%, 19.9%)
Chesterfield County	51041	13.7%	(10.0%, 18.6%)	15.1%	(12.9%, 17.6%)
Cumberland County	51049	30.3%	(10.9%, 60.5%)	22.9%	(18.8%, 27.7%)
Dinwiddie County	51053	26.0%	(11.5%, 48.7%)	20.8%	(18.3%, 23.6%)
Goochland County	51075	13.4%	(3.6%, 38.7%)	18.7%	(15.0%, 23.1%)
Greensville County	51081	15.9%	(3.4%, 50.8%)	20.9%	(16.6%, 26.1%)
Halifax County	51083	19.8%	(10.9%, 33.2%)	17.1%	(13.8%, 20.9%)
Hanover County	51085	11.8%	(6.7%, 20.1%)	15.2%	(13.1%, 17.4%)
Henrico County	51087	17.2%	(12.9%, 22.5%)	18.1%	(16.3%, 19.9%)
Lunenburg County	51111	21.0%	(7.1%, 48.2%)	22.1%	(17.9%, 26.9%)
Mecklenburg County	51117	19.8%	(11.3%, 32.4%)	19.0%	(16.0%, 22.3%)
New Kent County	51127	9.8%	(4.1%, 33.1%)	15.4%	(8.1%, 27.3%)
Nottoway County	51135	2.8%	(1.7%, 24.4%)	16.5%	(9.5%, 27.1%)
Powhatan County	51145	26.7%	(5.8%, 68.4%)	19.9%	(16.0%, 24.4%)
Prince Edward County	51147	20.5%	(7.4%, 45.5%)	24.7%	(22.1%, 27.5%)
Prince George County	51149	12.3%	(5.3%, 26.2%)	15.3%	(11.1%, 20.7%)
Surry County	51181	15.1%	(2.0%, 60.8%)	16.8%	(9.2%, 28.8%)
Sussex County	51183	17.1%	(3.6%, 53.2%)	24.9%	(19.1%, 31.8%)
Colonial Heights City	51570	25.7%	(5.9%, 65.7%)	15.8%	(12.2%, 20.2%)
Emporia City	51595	44.9%	(7.1%, 89.6%)	24.3%	(15.1%, 36.8%)
Hopewell City	51670	12.4%	(3.9%, 32.8%)	18.3%	(11.6%, 27.8%)
Petersburg City	51730	11.7%	(5.2%, 24.2%)	14.2%	(10.2%, 19.5%)
Richmond City	51760	20.0%	(14.2%, 27.4%)	20.8%	(17.0%, 25.3%)

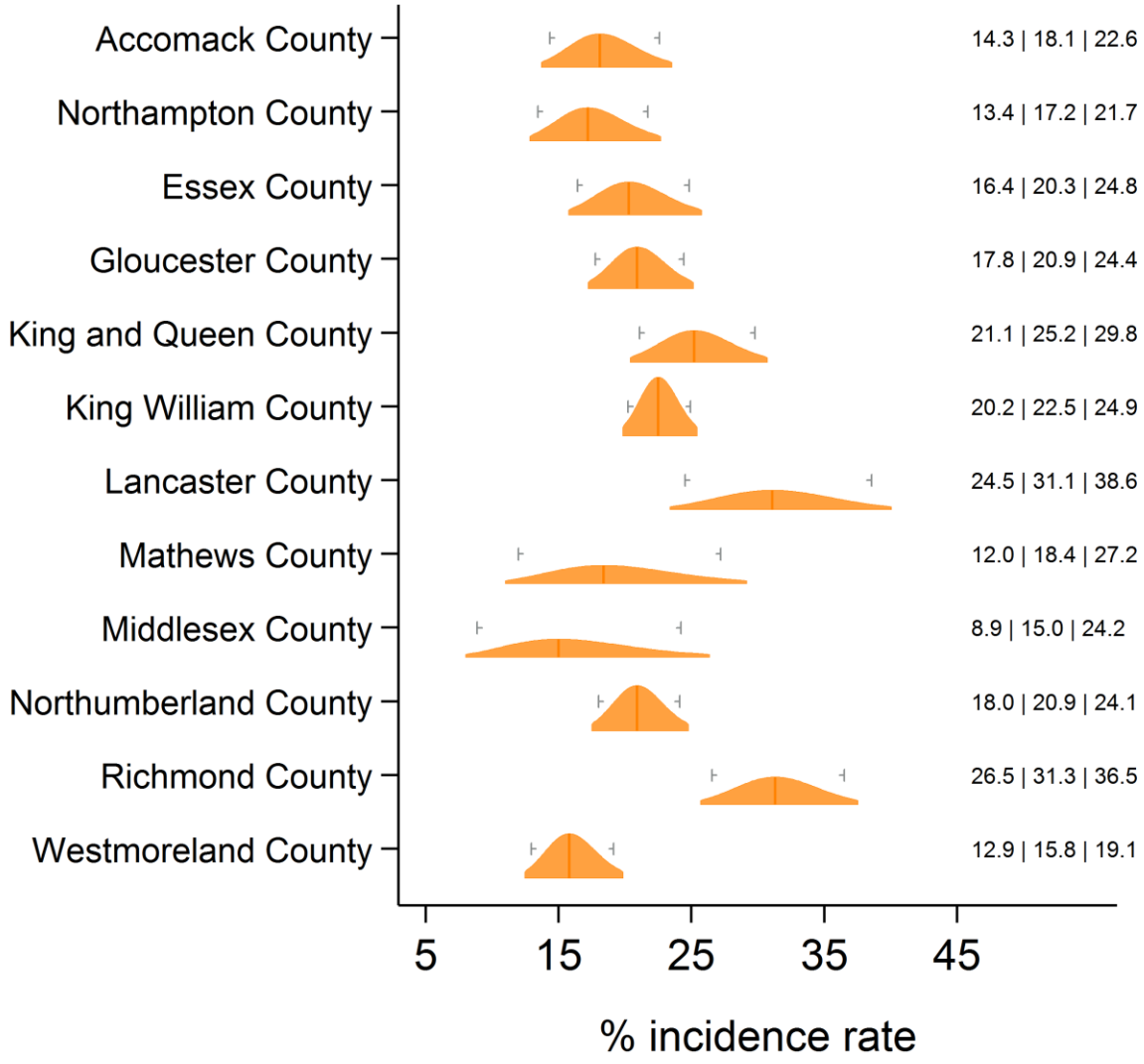
County name	County FIPS	Direct estimate	Direct 95% CI	SAE composite	SAE 95% CI
Accomack County	51001	16.5%	(7.5%, 32.3%)	18.1%	(13.7%, 23.5%)
Essex County	51057	22.5%	(7.5%, 50.8%)	20.3%	(15.7%, 25.7%)
Gloucester County	51073	17.8%	(7.5%, 36.7%)	20.9%	(17.2%, 25.1%)
Isle of Wight County	51093	11.0%	(5.0%, 22.6%)	17.8%	(14.8%, 21.4%)
James City County	51095	17.9%	(9.6%, 30.8%)	15.6%	(13.6%, 17.8%)
King and Queen County	51097	31.7%	(5.7%, 78.1%)	25.2%	(20.3%, 30.7%)
King William County	51101	17.9%	(5.7%, 43.7%)	22.5%	(19.8%, 25.4%)
Lancaster County	51103	20.7%	(3.5%, 65.1%)	31.1%	(23.3%, 40.0%)
Mathews County	51115	3.8%	(1.0%, 23.1%)	18.4%	(11.0%, 29.2%)
Middlesex County	51119	24.7%	(3.9%, 72.5%)	15.0%	(8.0%, 26.3%)
Northampton County	51131	13.5%	(4.7%, 33.3%)	17.2%	(12.8%, 22.7%)
Northumberland County	51133	26.6%	(9.7%, 55.1%)	20.9%	(17.5%, 24.8%)
Richmond County	51159	31.4%	(15.3%, 53.5%)	31.3%	(25.7%, 37.5%)
Southampton County	51175	38.2%	(14.6%, 69.1%)	26.4%	(21.4%, 32.1%)
Westmoreland County	51193	24.7%	(10.0%, 49.2%)	15.8%	(12.4%, 19.8%)
York County	51199	6.7%	(2.9%, 15.0%)	12.8%	(9.1%, 17.6%)
Chesapeake City	51550	13.9%	(9.8%, 19.3%)	14.8%	(13.4%, 16.4%)
Franklin City	51620	21.2%	(8.8%, 43.0%)	21.0%	(16.8%, 25.9%)
Hampton City	51650	26.4%	(18.4%, 36.4%)	17.1%	(14.5%, 20.0%)
Newport News City	51700	20.1%	(13.2%, 29.5%)	18.8%	(16.1%, 21.9%)
Norfolk City	51710	12.7%	(7.6%, 20.4%)	19.2%	(16.0%, 22.9%)
Poquoson City	51735	26.8%	(3.2%, 80.0%)	17.0%	(13.3%, 21.4%)
Portsmouth City	51740	16.4%	(9.6%, 26.6%)	19.1%	(16.2%, 22.4%)
Suffolk City	51800	21.6%	(11.9%, 36.1%)	16.5%	(14.7%, 18.5%)
Virginia Beach City	51810	14.4%	(10.5%, 19.5%)	16.1%	(14.4%, 17.9%)
Williamsburg City	51830	5.5%	(1.7%, 58.9%)	14.6%	(10.0%, 20.7%)

Section 4: Graphical representation

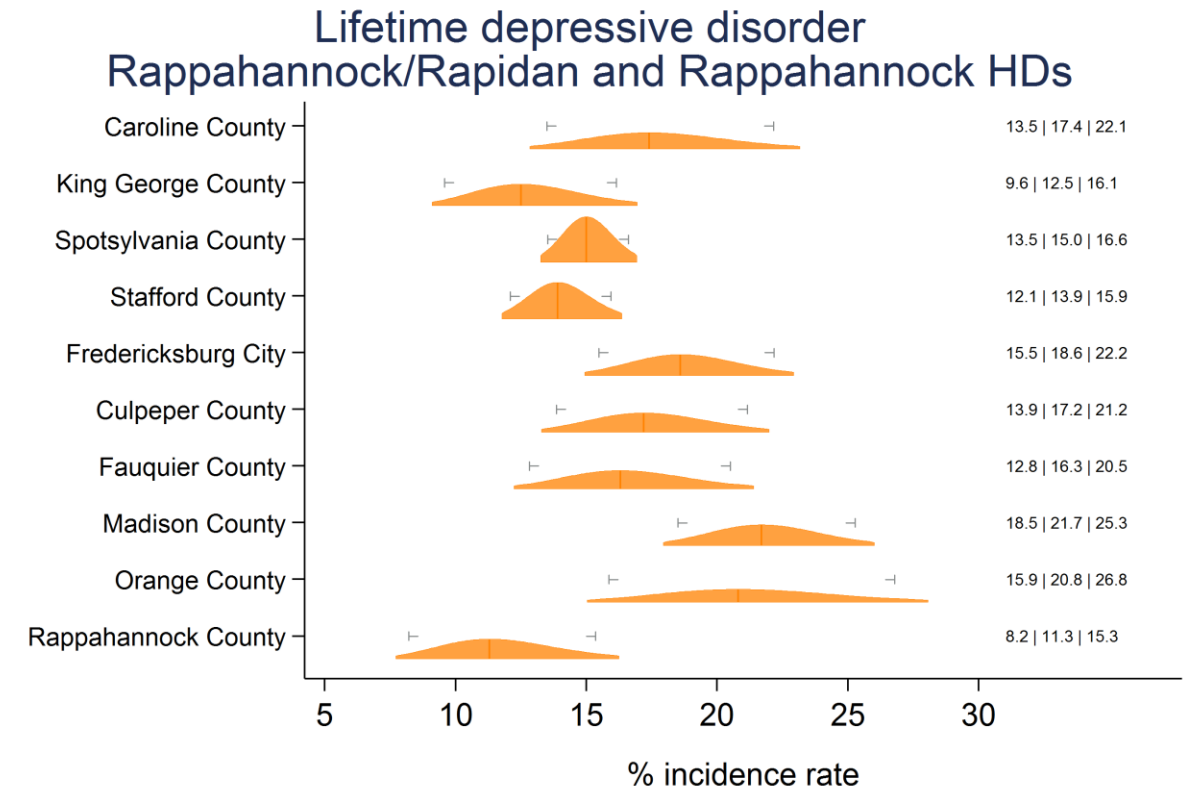


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

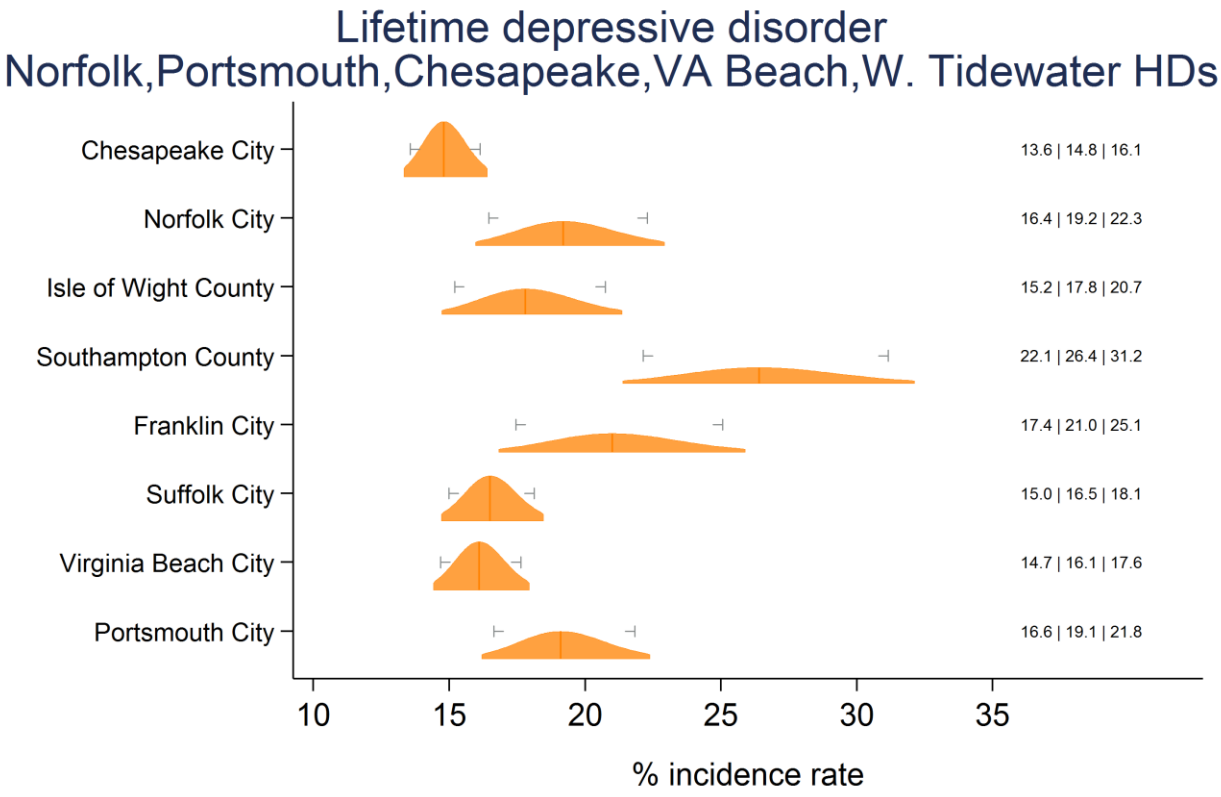
Lifetime depressive disorder
Eastern Shore and Three Rivers HDs



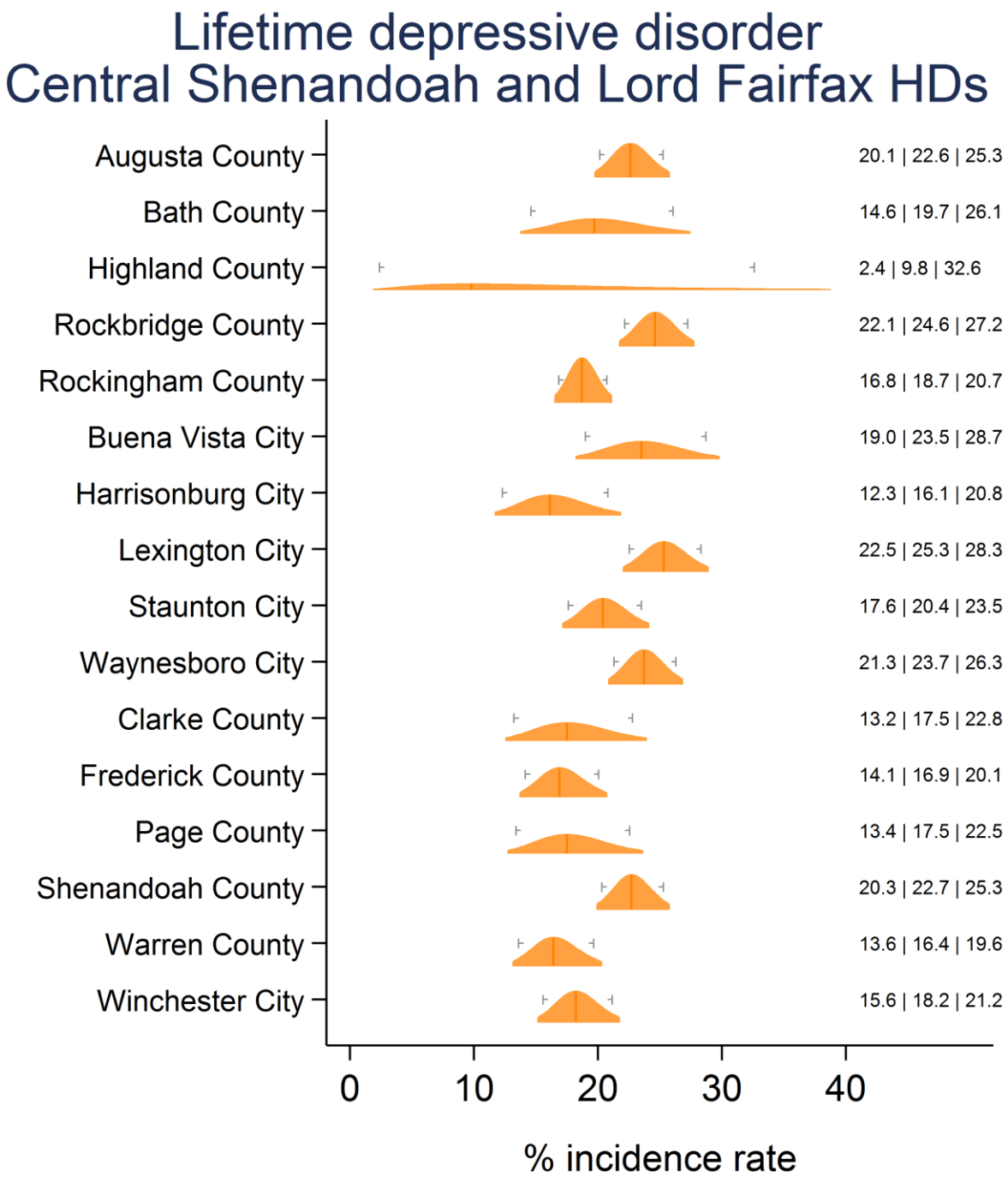
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



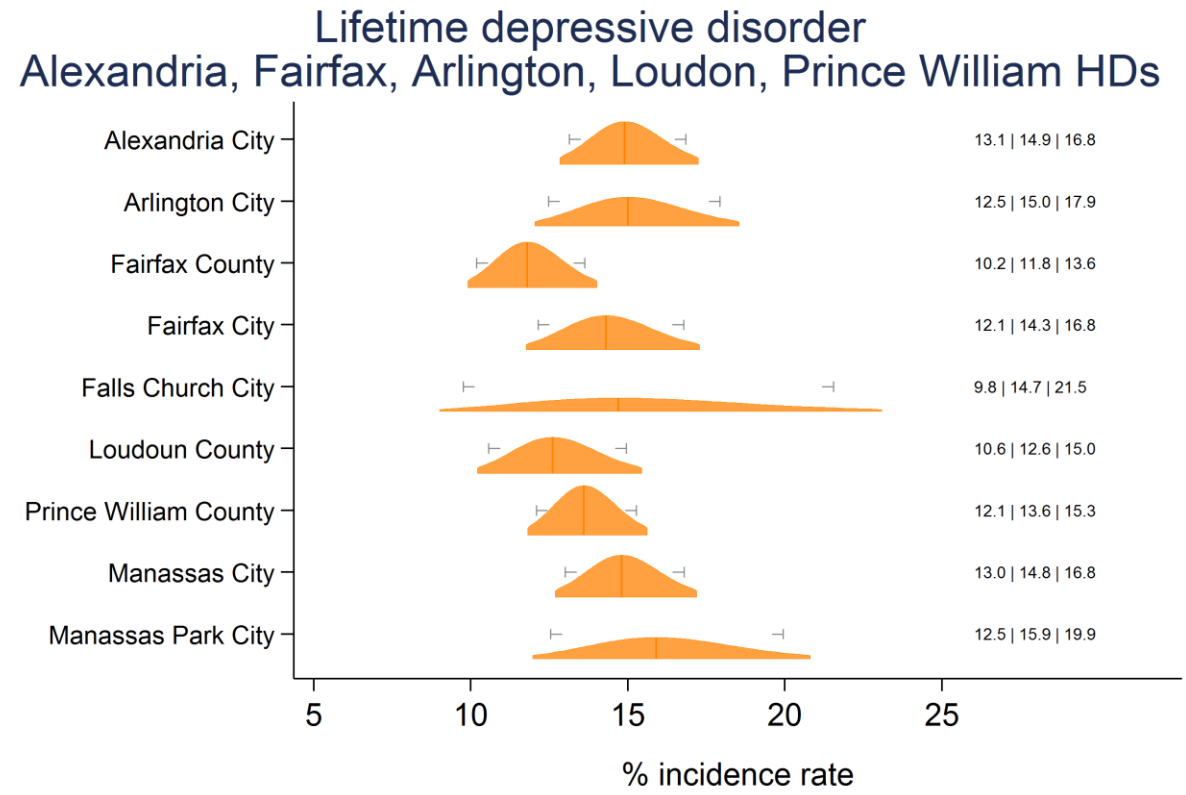
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



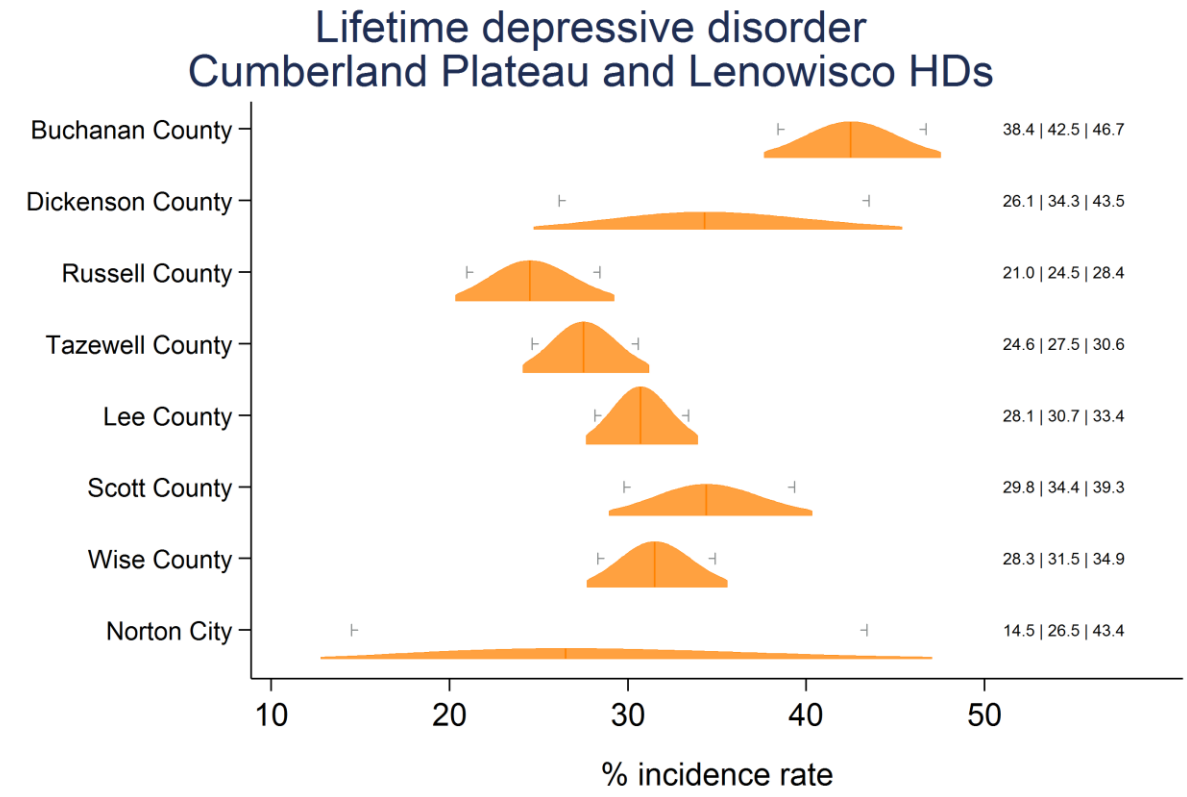
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



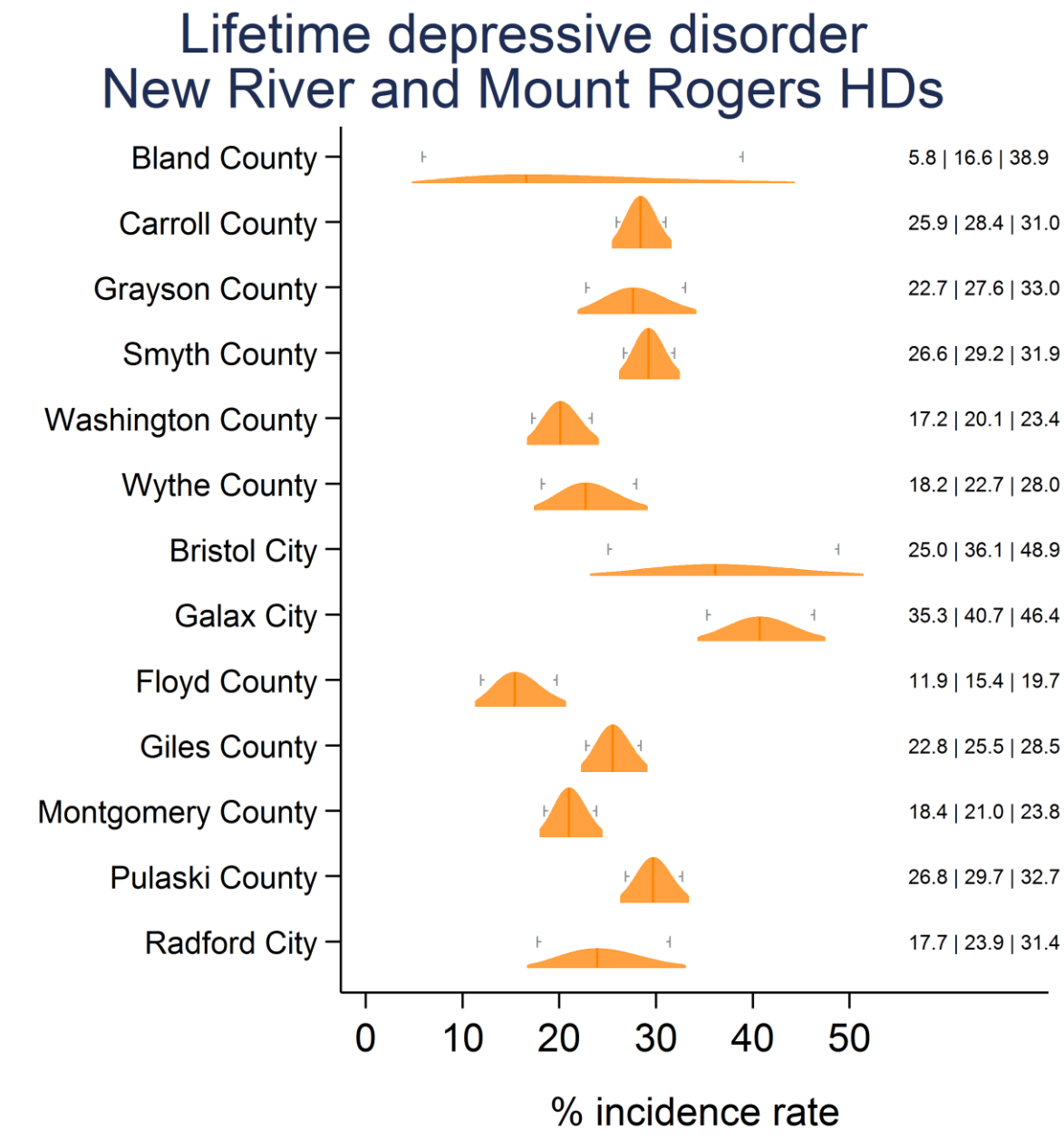
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



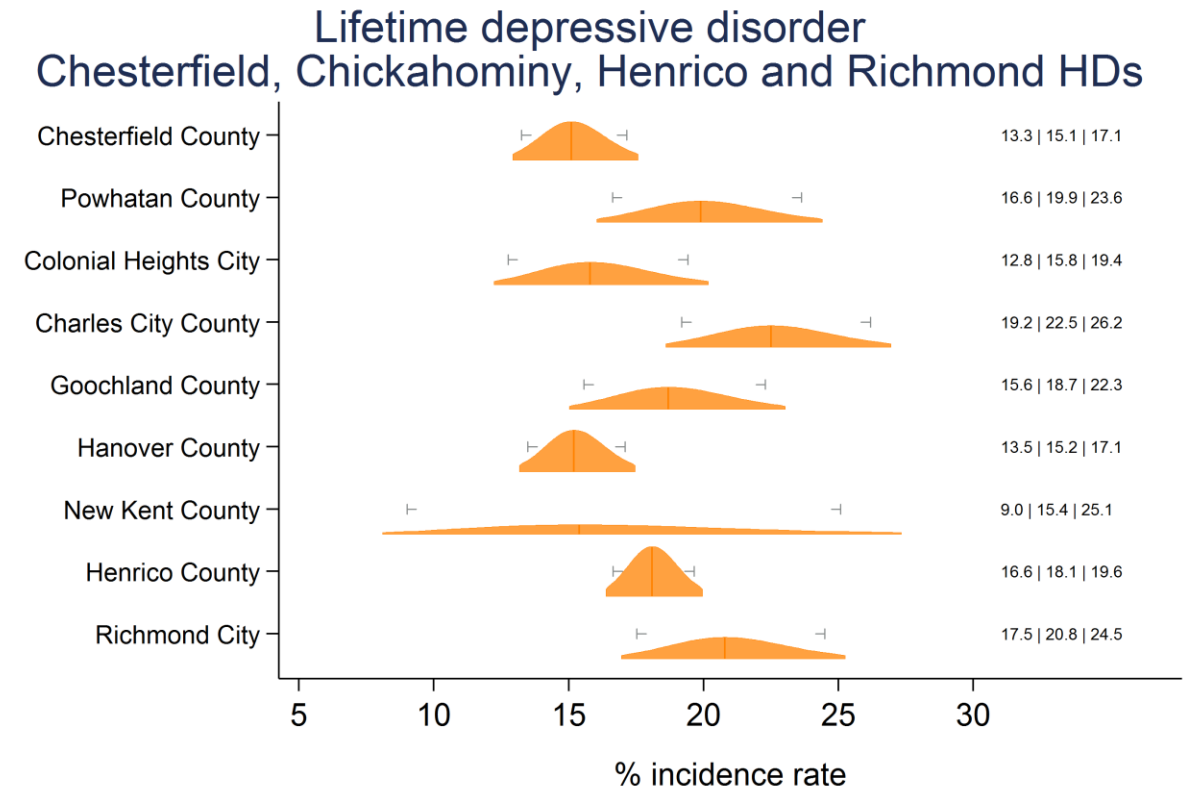
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



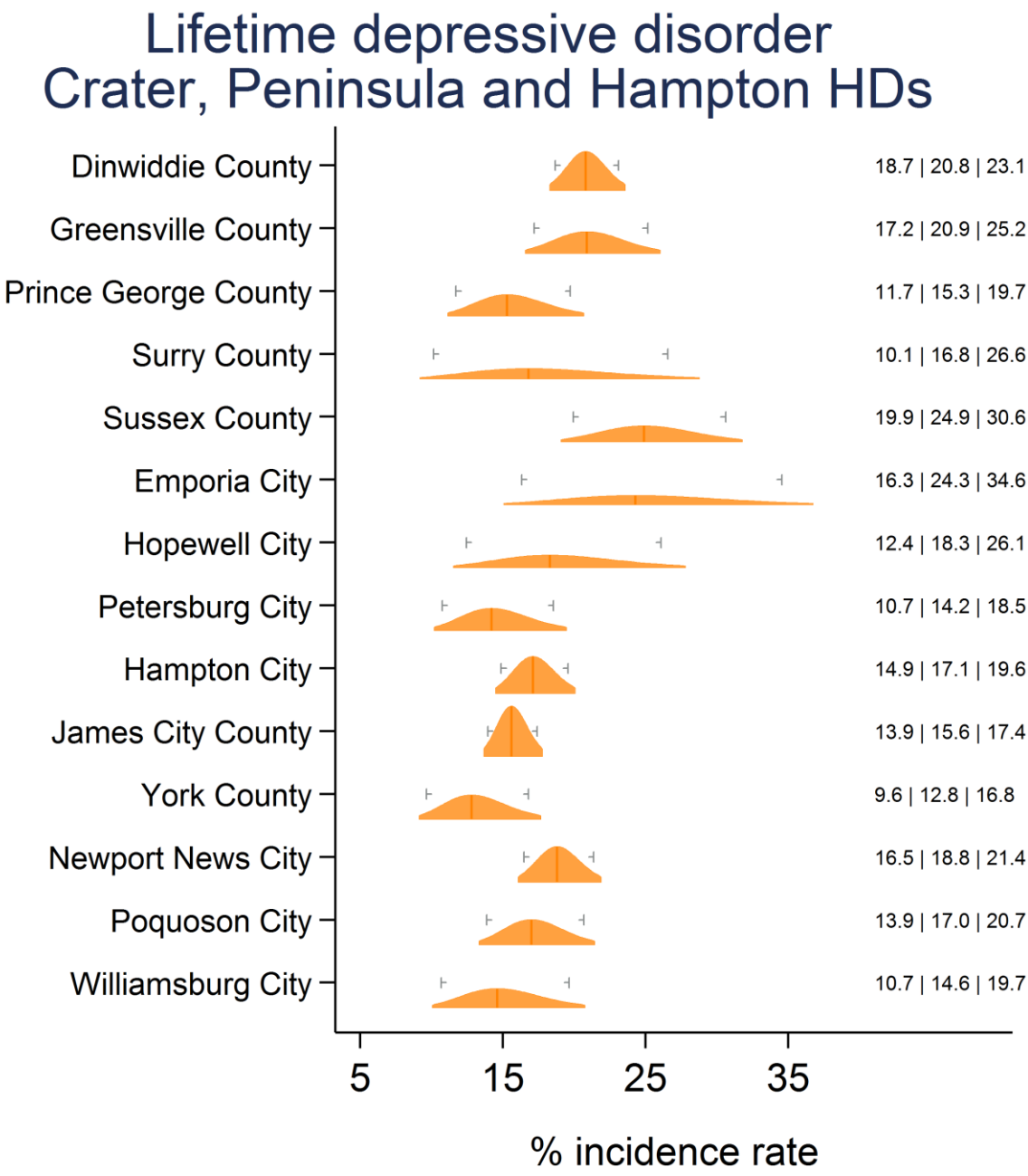
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



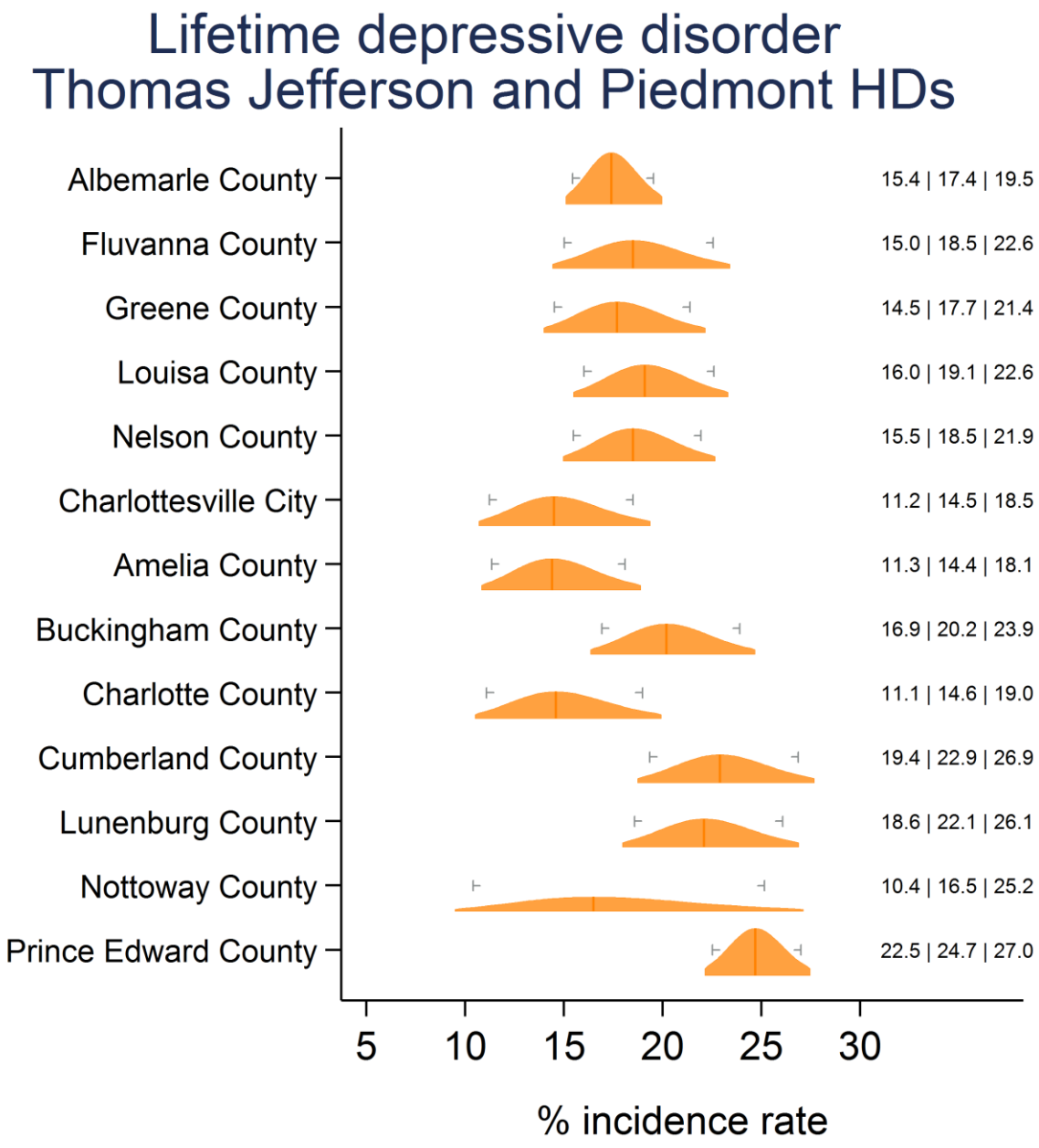
Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

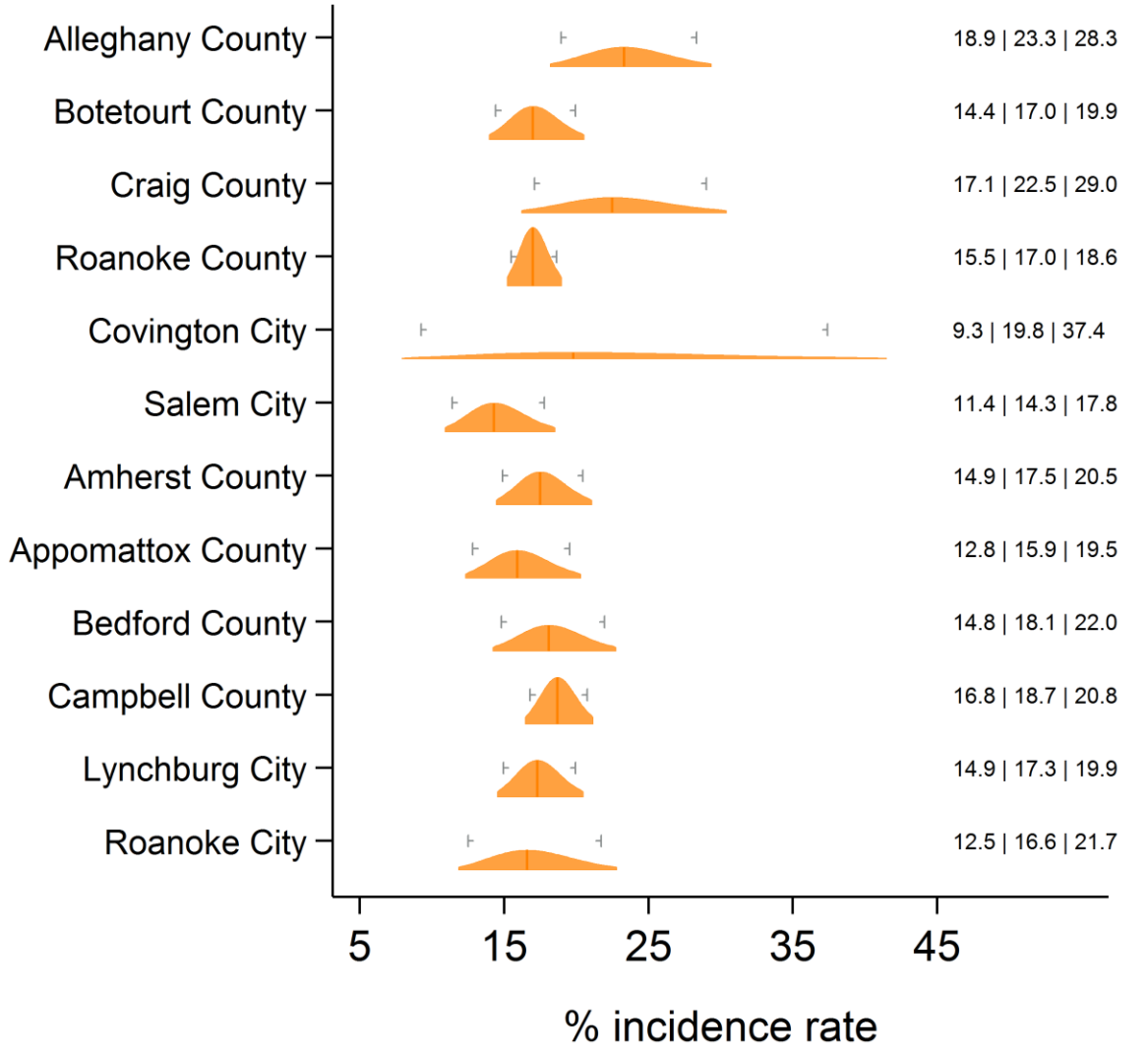


Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval



Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Lifetime depressive disorder
Alleghany, Roanoke and Central Virginia HDs



Text at right: 1-sided 95% LCB | Point Estimate | 1-sided 95% UCB
Gray markers: 90% confidence interval

Section 5: Additional diagnostics

Direct estimate is inside the 95% SAE Wilson CI: 55 areas.

Direct estimate is outside the 95% SAE Wilson CI: 78 areas.

SAE estimate is inside the 95% direct Wilson CI: 129 areas.

SAE estimate is outside the 95% direct Wilson CI: 4 areas.

SAE Wilson 95% CI is fully inside the 95% direct Wilson CI: 118 areas.

SAE Wilson 95% CI partially overlaps with the 95% direct Wilson CI: 15 areas.

SAE Wilson 95% CI and the 95% direct Wilson CI do not overlap: 0 areas.

SAE standard error is less that the direct standard error: 123 areas.

SAE standard error is greater that the (nonzero) direct standard error: 4 areas.

Direct standard error is zero: 6 areas.

Proportion of SAE variance due to ACS sampling error: min = 0.04%; med = 2.39%; max = 9.81%.

Proportion of SAE variance to sampling error in regression coefficient estimates: min = 82.36%; med = 95.01%; max = 99.51%.

Proportion of SAE variance due to model selection: min = 0.07%; med = 1.66%; max = 14.85%.